Installation and Operation Guide

XX234-00-02

V660B-488IR
High-Resolution Bullet Camera

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Vicon Industries Inc. does not warrant that the functions contained in this equipment will meet your requirements or that the operation will be entirely error free or perform precisely as described in the documentation. This system has not been designed to be used in life-critical situations and must not be used for this purpose.

www.vicon-security.com

Document Number: 8009-8234-00-02 Issued: 0512
Product specifications subject to change without notice.
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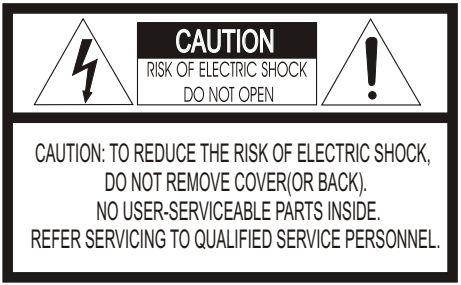
WARNING

TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS PRODUCT TO RAIN OR MOISTURE. DO NOT INSERT ANY METALLIC OBJECTS THROUGH THE VENTILATION GRILLS OR OTHER OPENINGS ON THE EQUIPMENT.

CAUTION


CAUTION
RISK OF ELECTRIC SHOCK
DO NOT OPEN
CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK,
DO NOT REMOVE COVER(OR BACK).
NO USER-SERVICEABLE PARTS INSIDE.
REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.

EXPLANATION OF GRAPHICAL SYMBOLS

The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.

The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the product.

PRECAUTIONS

Safety ----------

Should any liquid or solid object fall into the cabinet, unplug the unit and have it checked by the qualified personnel before operating it any further.

Unplug the unit from the wall oulet if it is not going to be used for several days or more. To disconnect the cord, pull it out by the plug. Never pull the cord itself.

Allow adequate air circulation to prevent internal heat build-up. Do not place the unit on surfaces (rugs, blankets, etc.) or near materials(curtains, draperies) that may block the ventilation holes.

Height and vertical linearity controls located at the rear panel are for special adjustments by qualified personnel only.

Cleaning ----------

Clean the unit with a slightly damp soft cloth. Use a mild household detergent. Never use strong solvents such as thinner or benzine as they might damage the finish of the unit.

Retain the original carton and packing materials for safe transport of this unit in the future.

FCC COMPLIANCE STATEMENT

FCC INFORMATION : THIS EQUIPMENT HAS BEEN TESTED AND FOUND TO COMPLY WITH THE LIMITS FOR A CLASS A DIGITAL DEVICE, PURSUANT TO PART 15 OF THE FCC RULES. THESE LIMITS ARE DESIGNED TO PROVIDE REASONABLE PROTECTION AGAINST HARMFUL INTERFERENCE WHEN THE EQUIPMENT IS OPERATED IN A COMMERCIAL ENVIRONMENT. THIS EQUIPMENT GENERATES, USES, AND CAN RADIATE RADIO FREQUENCY ENERGY AND IF NOT INSTALLED AND USED IN ACCORDANCE WITH THE INSTRUCTION MANUAL, MAY CAUSE HARMFUL INTERFERENCE TO RADIO COMMUNICATIONS. OPERATION OF THIS EQUIPMENT IN A RESIDENTIAL AREA IS LIKELY TO CAUSE HARMFUL INTERFERENCE IN WHICH CASE THE USER WILL BE REQUIRED TO CORRECT THE INTERFERENCE AT HIS OWN EXPENSE.

CAUTION : CHANGES OR MODIFICATIONS NOT EXPRESSLY APPROVED BY THE PARTY RESPONSIBLE FOR COMPLIANCE COULD VOID THE USER'S AUTHORITY TO OPERATE THE EQUIPMENT.

THIS CLASS A DIGITAL APPARATUS COMPLIES WITH CANADIAN ICES-003.

CET APPAREIL NUMÉRIQUE DE LA CLASSE A EST CONFORME À LA NORME NMB-003 DU CANADA.

CE COMPLIANCE STATEMENT

WARNING

This is a Class A product. In a domestic environment this product may cause radio interference in which case the user may be required to take adequate measures.

IMPORTANT SAFETY INSTRUCTIONS

1. Read these instructions.
2. Keep these instructions.
3. Heed all warnings.
4 . Follow all instructions.
5. Do not use this apparatus near water.
6. Clean only with dry cloth.
7. Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.
8. Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
9. Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or the third prong are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
10. Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
11. Only use attachments/accessories specified by the manufacturer.
12. Use only with the cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used,use caution when moving the cart/apparatus combination to avoid injury from tip-over.

13. Unplug this apparatus during lightning storms or when unused for long periods of time.
14. Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been moisture, does not operate normally, or has been dropped.

15. CAUTION THESE SERVICING INSTRUCTIONS ARE FOR USE BY QUALIFIED SERVICE PERSONNEL ONLY. TO REDUCE THE RISK OF ELECTRIC SHOCK DO NOT PERFORM ANY SERVICING OTHER THAN THAT CONTAINED IN THE OPERATING INSTRUCTIONS UNLESS YOU QRE QUALIFIED TO DO SO.

16. Use satisfy clause 2.5 of IEC60950-1/UL60950-1 or Certified/Listed Class 2 power source only.

INTRODUCTION

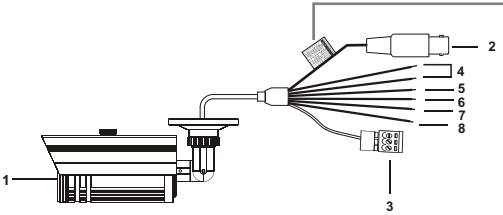
The camera provides high-quality images using Sony CCD technology especially designed for closed-circuit television (CCTV) and security surveillance applications.

Features:

- High resolution and high performance 1/3" Sony® Super HAD™ Ⅱ Technology
- Excellent picture quality
- 600 lines(Color) of resolution
- 22x Optical Zoom(f=4.1~88mm) Lens F1.6~3.7
- Zoom and Focus Control via Remote or Keyboard Controller
- 0.1 lux(Color), 0 lux(B/W) with LEDs on @ F1.2, 30IRE Sensitivity
- Auto electronic shutter [1/60(1/50) ~ 1/100,000] and manual electronic shutter modes
- OSD (On Screen Display)
- Auto and manual white balance modes
- DWDR (Digital Wide Dynamic Range)
- OSD Font Color (16 Color)
- BLC (Back Light Compensation)
- Day&Night (Auto / DAY / NIGHT / EXT)
- Private Mask (8 position, 16 Colors)
- AGC (Auto Gain Control)
- MIRROR (ON/OFF)
- Motion Detection(4 point)
- Zoom Preset 1~5
- HLC (High Light Compensation)
- DPC (Dead Pixel Cancellation)
- IR Range distance up to 60M
- RS-485 Control (Compatible with Pelco D and Pelco P protocols)
- ALARM External IN / ALARM (Motion) External OUT
- Day & Night External Control
- Operates in AC24V ± 10% / DC12V ± 10%
- Weatherproof housing IP66
- Use Certified / Listed Class 2 power source only
- Camera Mount : camera mounts directly to the wall or ceiling

IMPORTANT : The user of this camera is responsible for checking and complying with local, state, and federal laws and statutes concerning the recording and monitoring of audio signals.

CAMERA CONNECTIONS



Connection Cable Description

COLOR	DESCRIPTION
RED	AC/DC+
WHITE	AC/DC-
GREEN	RS485(+)
BLUE	RS485(-)
BLACK	GND
BROWN	ALARM -OUT
GRAY	D/N EXT -IN
YELLOW	ALARM-IN

1. Lens : 22x Optical Zoom(f=4.1~88mm) Lens for wide area monitoring

2. Video : BNC connector used to connect the camera to a monitor, switcher, etc.

3. Power : 24V AC input / 12V DC input power source from a DC 12V or AC 24V ac +/-10% 60/50Hz +/-1Hz.
Use Certified/Listed Class 2 power supply transformer only.

*If using DC 12V power adaptor, use a power supply capable of supplying 10 Watts.

4. RS 485 CONTROL
GREEN : RS485+
BLUE : RS485 -

5. Day & Night External CONTROL

6. ALARM IN

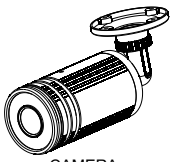
7. ALARM OUT

8. GROUND

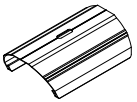
How to Adjust ZOOM /FOCUS
Remote Controller
Insert the din jack of remote controller to the hall of housing
Adjust the zoom using up/down key
Adjust the focus using up/down key
Keyboard controller
Connect the 485(+)(-) of Keyboard controller with 485(+)(-) Terminal Block
Adjust the zoom using tele/wide key
Adjust the focus using near/far key

REMINDER:
Never aim the camera directly into the sun.

PACKAGE CONTENTS



CAMERA



SUNSHIELD

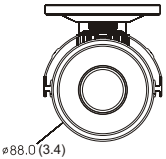
SUNSHIELD-BOLT

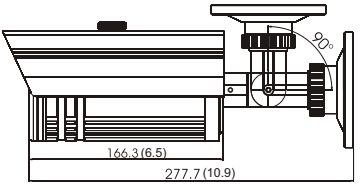
SCREWS

REMOTE CONTROLLER

Screw Firmly attach the bracket to the wall or ceiling

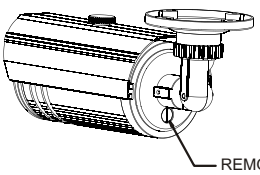
DIMENSIONS





UNIT : mm (inches)

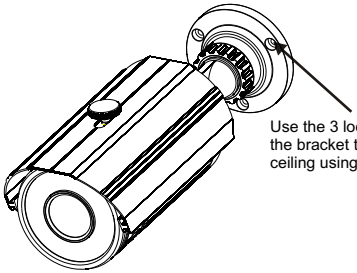
WATER INGRESS PREVENTION



After using the Remote Control cable, disconnect it and insert the Remote Control Port Cap. Secure it tightly.

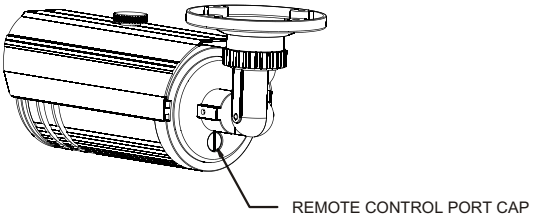
Caution : This is a sealed camera with no internal adjustments and as such opening the case may invalidate the warranty.

CAMERA FIXING

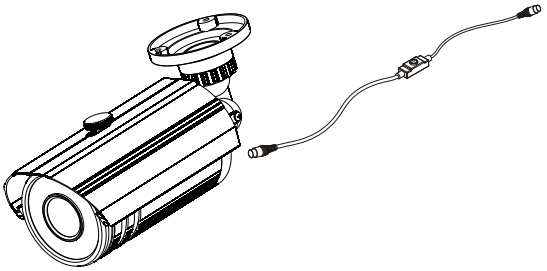

Use the 3 location holes around the base of
the bracket to secure the camera to a wall or
ceiling using fixing suitable to the type of surface

CAMERA ADJUSTMENT

The camera is supplied with a remote control set up tool. To connect the remote control to the camera, first remove the Remote control port cap at the rear of the camera:



Connect the remote control using the 6 pin din connector end to the socket within the camera:



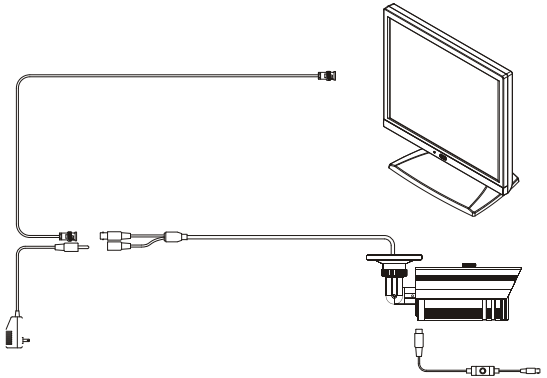
Connect the BNC to a set up monitor to view the picture and On Screen Menus.

To Enter the menus press the button on the remote control.

To Navigate the menus, move the button left/Right/Up and Down, press the button to Enter.

END - takes you back a step in the OSD or exits from the OSD

CAMERA CONNECTION



THE DEFINITION OF TERMS

White Balance
Compensates for deviations in the white color caused by changes in the color temperature of the light source so that the colors are reproduced correctly.

Exposure
Adjusts the images to the optimum brightness.

SHUTTER (Electronic Shutter)
Controls the integration time (exposure) of the photodiode array and reduces blooming, overexposure, and smear when capturing moving objects.

Flicker (FLC)
Avoids image flicker when there is a discrepancy between current and frequency

AGC (Automatic Gain Control)
Automatically adjusts (boosts) the video signal to the required level to produce a quality image in low light situations

Back Light Compensation (BLC)
Compensates for the brightness of the subjects with a large amount of background light that would make it practically impossible to see any details of the subjects. Adjusts the iris so that a distinctive subject and the background are delivered at the same time.

HLC (High Light Compensation)
When a high-brightness subject is shot, it may not be brought into focus because of the large surface area over which the high-brightness pixels are spread.
In cases like this, the high-brightness subject can be brought into focus by using this function.

LENS SHAD. (Lens Shading)
This function is the make brighter image of corner of screen.

Mask
Hides one or more areas that the user does not want to be displayed on screen.
Masks can be set with their own display area, color, darkness and mosaic processing.

Detection
Detects motion within the scene using one of the available methods.
Some methods trigger the Alarm output.

Sharpness
Reducing this parameter adjusts the noise level to smooth out the "noise" caused by the compression.
Caution should be taken not to reduce it too much, which may result in a blurred image.

Resolution
Controls the display of fine details. The higher the resolution, the higher level of details can be seen.

2D-NR (Digital Noise Reduction)
Adjusts the illuminance noise level in low light situations by reducing image noise in order to improve the image.

Nega
Reverses the color signals for the Chroma signal so the image looks like a “negative.”

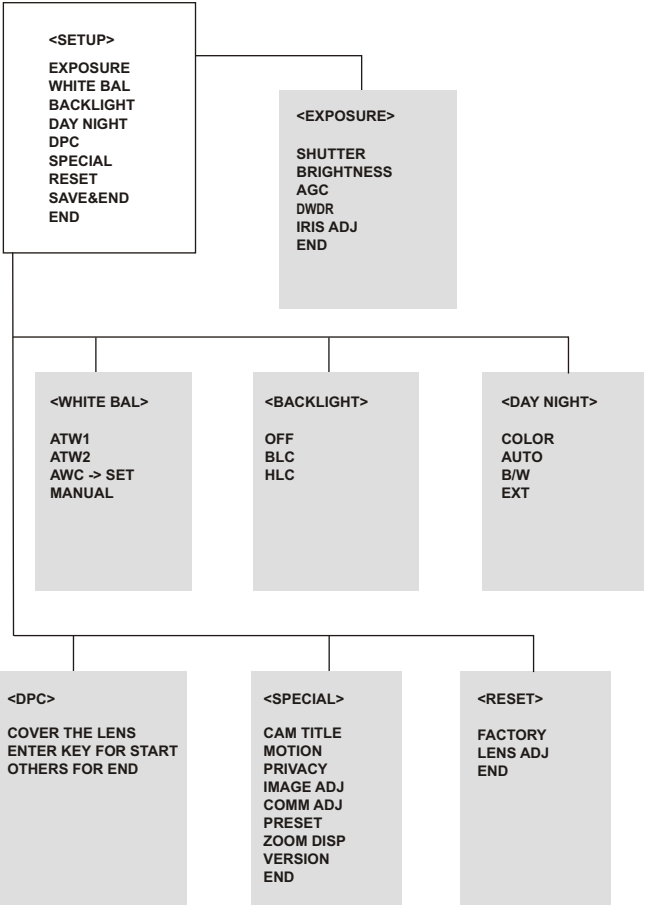
DPC(Dead Pixel Cancellation)
white pixels whose frequency of occurrence varies in proportion to the temperature are sometimes observed when the devices are used under the influence of external factors or especially high temperatures. The white pixel detection and compensation function can automatically detect and compensate up to 64 white pixels with the highest detection level in sequence so as to maintain the image quality.

MIRROR
Reverses the image on the screen left to right or right to left
(as it would be seen in a mirror.)

DWDR
When the camera looks at a dark area, there may be loss of dark detail in the low-brightness subjects.
Using DWDR (on) may produce a higher quality image.

FONT COLOR
Adjust OSD menu color from a choice of 16 different colors.

STRUCTURE OF THE SETUP MENU



EXPOSURE

The EXPOSURE menu is used to set the automatic light control method for the camera. It provides the ability to adjust the shutter speed, brightness, AGC, dynamic range and iris functions of the camera.

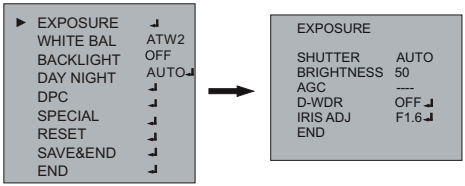
1) SHUTTER Select the shutter mode.(Auto,1/60(50), FLK~ 1/100,000 sec)
Can be changed while in shutter mode.

2) BRIGHTNESS Adjust BRIGHTNESS level (0 ~ 255)
Can be adjusted while in DC/ manual lens mode.

3) AGC Auto gain control (OFF / LOW / MIDDLE / HIGH)

4) DWDR Digital Wide dynamic range(Xtended Dynamic Range)
OFF / ON

5) IRIS ADJ Select the IRIS Open.(F1.6~F32)



WHITE BAL

The screen color can be adjusted by using the WHITE BALANCE function.
It compensates for deviations in the white color caused by changes in the color temperature of the light source so that the colors are reproduced correctly.

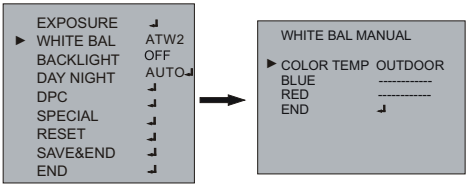
1) ATW1 Set the color temperature 2500°K 10000°K
Range is narrower than ATW2 but compensates better than ATW2.

2) ATW2 Set the color temperature 2000°K 13000°K

3) AWC -> SET Range is wider than ATW1 but does not compensate as well as ATW1.
Press the ENTER button while the camera is directed at a piece of white paper to obtain the optimum state under current illumination.
If the environment or light source changes you will have to reset the white balance.

4) MANUAL Manual mode. User can change R and B gain manually.

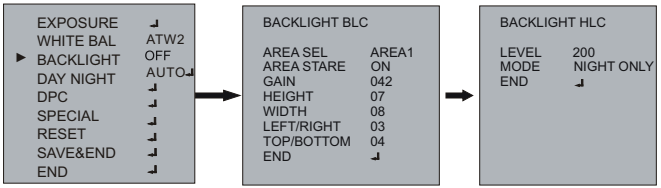
<WHITE BAL MANUAL MODE>



BACKLIGHT

The BLC (Backlight Compensation) function provides compensation by increasing the brightness of the overall screen to compensate for the overly bright areas of the background so that the darker areas are reproduced with more clarity. This provides a balanced scene where all objects are properly exposed.

<BACKLIGHT MODE>



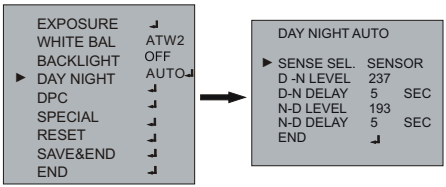
1) BLC Back Light Compensation prevents back lighting from affecting the scene.

2) HLC High Light Compensation filters brightly lit areas to provide more even exposure across all areas of scene.

DAY NIGHT

The DAY/NIGHT menu is used to configure the day and night related setting for the camera.
The camera can turn the IR(infrared)filter on or off.
Mode : COLOR / AUTO / B/W / EXT

<DAY NIGHT AUTO MODE>

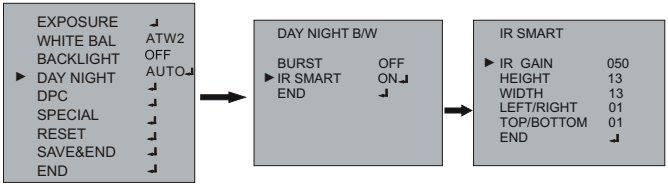


1)SENSE SEL Select the day and night sensing mode. (SENSOR/AGC)

SENSOR Day and night changes are made according to the sensor inputs.

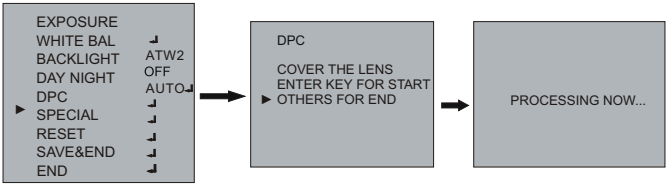
AGC Day and night changes are made according to the brightness of the image. Use only when the camera is installed in a dark place but the camera is viewing a bright place. When used in a normal installation hunting may occur.

<DAY NIGHT B/W MODE>



DPC

DPC Auto setting (Automatically finds and cancels dead pixels.)

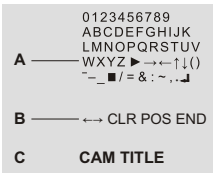


SPECIAL

The SPECIAL menu provides the ability to set up the camera title, motion detection, privacy mask, image adjust, communication adjust, zoom preset and zoom position display functions of the camera.

1) CAM TITLE

Maximum of 15 characters are allowed.



A. Character Table
B. Command Line
C. CAM TITLE

← : Move to left

→ : Move to right

CLR : Erase all characters

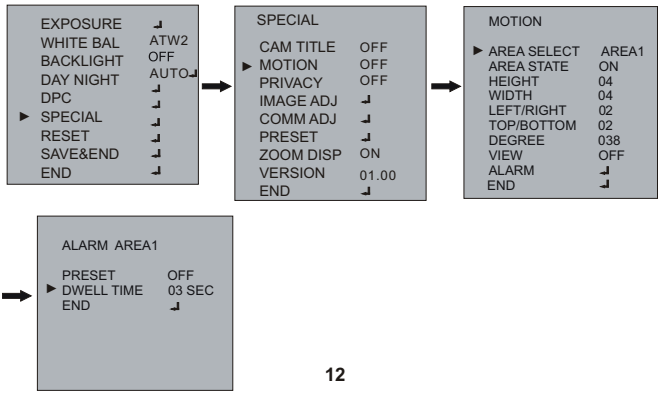
POS : Move the position of title display

END : End

2) MOTION

MD stands for motion detection. Maximum of 4 areas are allowed.

AREA SELECT	Select MD area number. (AREA1 ~AREA4)
AREA STATE	Select MD ON/OFF
HEIGHT	Adjust height of MD area
WIDTH	Adjust width of MD area
LEFT/RIGHT	Adjust the location of the MD area with boundary LEFT and RIGHT.
TOP/BOTTOM	Adjust the location of the MD area with boundary TOP and BOTTOM
DEGREE	Adjust sensitivity of MD area.(0~255)
VIEW	The screen displays with pink dots. When a motion is detected in the selected area, the pink dots are displayed on the screen.
ALARM	Select preset move when MD occurred. (OFF/ PRESET 1 ~ PRESET 5)
	Select preset move dwell time. (03 SEC ~ 60 SEC)

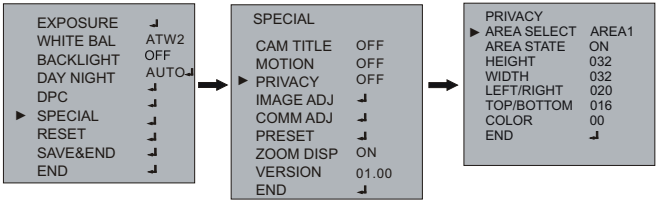


3) PRIVACY

It used to hide one or more areas which the user does not want to be displayed on screen. Privacy Masks can be set with their own display area and color. Maximum of 8 areas are allowed.

AREA SELECT	Select MASK area number.(Area 1 ~ Area 8)
AREA STATE	Select MASK ON/OFF
HEIGHT	Adjust height of MASK area
WIDTH	Adjust width of MASK area
LEFT/RIGHT	Adjust the location of the MASK area with boundary LEFT and RIGHT
TOP/BOTTOM	Adjust the location of the MASK area with boundary TOP and BOTTOM.
COLOR	Select MASK color. (0~15)

<PRIVACY MODE>

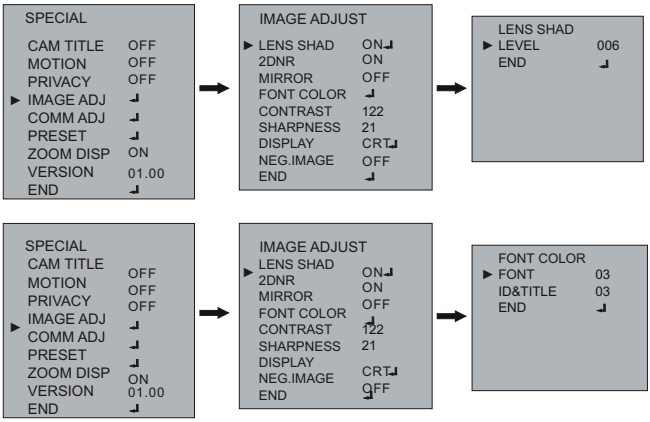


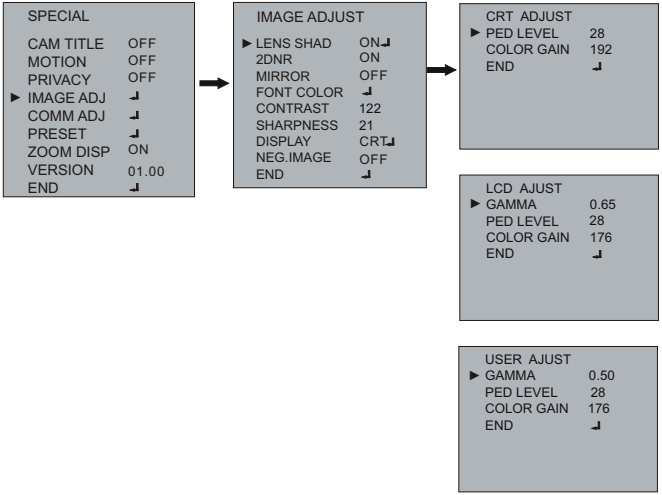
4) IMAGE ADJUST

The IMAGE ADJUST menu provides the ability to adjust the lens shading, 2DNR, mirror image, font color, contrast, sharpness, display device and negative image functions of the camera.

LENS SHAD	Adjust Lens shading level (0~255) Depending on the level value, dims down the center area and brightens up the side area.
2DNR	Select 2DNR ON/OFF
MIRROR	Select MIRROR ON/OFF
FONT COLOR	Select FONT COLOR level (0~15) Select IDR TITLE level (0~15)
CONTRAST	Adjust CONTRAST level (0~255)
SHARPNESS	Adjust SHARPNESS level (0~31)
DISPLAY	Select DISPLAY mode (CRT /LCD/USER)
NEG. IMAGE	Select Negative image mode ON /OFF

<IMAGE ADJUST MODE>

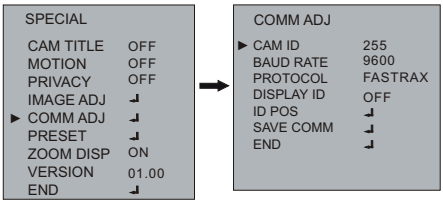




5) COMM (RS485) ADJUST

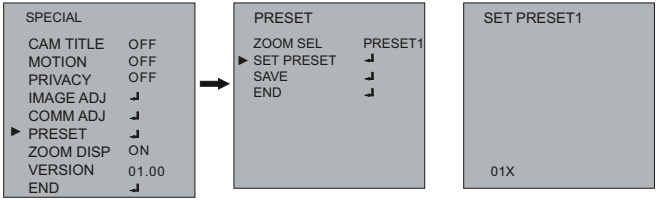
The camera can be controlled remotely by a control keypad using a RS485 connection.

CAM ID	Select the camera ID.(001 ~255)
BAUD RATE	Select serial communication speed (2400 / 4800 / 9600 / 19200)
PROTOCOL	Select RS485 protocol (FASTRAX / PELCO-P / PELCO-D)
DISPLAY ID	Select camera ID display ON /OFF.
ID POS	Select camera ID display position.



6) PRESET

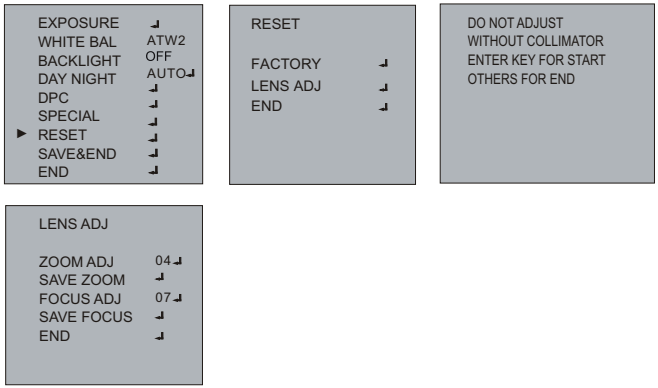
ZOOM SEL Select the number for setup.(PERSET 1 ~ PRESET 5)
SET PRESET Setup the selected preset position.
SAVE Exits without saving changes.



ZOOM DISPLAY Select the zoom position display (01X ~22X) ON /OFF.
VERSION Firmware version.

RESET

FACTORY Restores the factory default settings.
LENS ADJ Adjust the zoom and focus of lens.



SAVE & END Saves all changes and exits.
END Exits without saving changes.

SPECIFICATIONS

MODEL				NTSC	PAL
Power	Power source			AC24V ± 10% / DC12V ± 10%	
	Power consumption			10.0W(700mA)	
General	Image sensor			1/4" Sony Super HAD II	
	Total pixels			811(H) x 508(V)	795(H) x 596(V)
	Scanning system			2:1 interlace	
	Scanning frequency			15.734KHz(H) x 59.94Hz(V)	15.625KHz(H) x 50Hz(V)
	Sync. system			Internal	
	Electronic Shutter			1/60 ~ 1/100,000 sec	1/50 ~ 1/100,000 sec
	Resolution			600TV lines (Color)	
	Min. illumination			0.1 Lux(Color), 0 Lux (IR LED ON)	
	Video output			1.0 Vp-p (75 ohm, composite)	
	S/N ratio			More than 50dB (AGC OFF)	
	IR LED/SENSOR			IR LED 78EA, Sensor 1EA	
	LED Lighting Distance			60M	
	Camera Control			External remote control (ADKEY), RS485	
	Lens		Zoom Ratio	Optical x22	
			Focal Length	F = 4.1~ 88mm	
			Aperture	F1.6(Wide) ~ F3.7(Tele)	
	FUNCTION	EXPOSURE	SHUTTER	AUTO, / FIX (1/60~ 1/100,000sec)	AUTO, / FIX (1/50~ 1/100,000sec)
			BRIGHTNESS	LEVEL 0~255	
			AGC	OFF / LOW / MIDDLE / HIGH	
			DWDR	ON / OFF	
			Lens Iris	F1.6 ~32	
		White Balance		ATW1, ATW2, AWC -> SET, MANUAL(INDOOR,OUTDOOR,USER)	
		BACKLIGHT	HLC	LEVEL 0~255	
			BLC	AREA SEL, AREA STATE, GAIN, AREA SIZE	
		DAY&NIGHT	AUTO	SENSOR /AGC, D/N LEVEL, DELAY	
			COLOR	COLOR ONLY	
			B/W	BURST, IR SMART, IR LEVEL	
			EXIT	Externak D/N Control	
		DPC		64ponit DEAD PIXEL CORRECTION	
		SPECIAL	CAMTITLE	ON / OFF	
			MOTION	AREA1~4, AREA STATE, DEGREE, VIEW, ALRAN	
			PRIVCY	AREA1~8	
			IMAGE ADJ	LENS SHAD/ 2DNR/ MIRROR/ FONT COLOR/ CONTRAST SHAPRNESS/ DLSPLAY/ NEG.IMAGE	
			COMM ADJ	CAM ID / BAUD RATE / PROTOCOL / DISPLAYID / ID POS	
			Language	English	
		Preset		Preset 1 ~ 5	
Connector & etc.	Power input			3-Pin Terminal Block	
	Video output			BNC Connector	
	Operating temperature			14°F ~ 122°F (-10°C ~ +50°C)	
	IP Rating			IP66	
	Materials			Die-Casting Aluminum	
	Operating humidity			0 ~ 96% (non-condensing)	
	Weight			1.3kg	

Vicon Standard Equipment Warranty

Vicon Industries Inc. (the "Company") warrants your equipment to be free from defects in material and workmanship under Normal Use from the date of original retail purchase for a period of three years, with the following exceptions:

1. VCRs, all models: Labor and video heads warranted for 120 days from date of original retail purchase. All other parts warranted for one year from date of original retail purchase.
2. LCD and CRT monitors, all models: One year from date of original retail purchase.
3. Uninterruptible Power Supplies: Two years from date of original retail purchase.
4. VDR-700 Recorder Series: One year from date of original retail purchase.
5. V5616MUX: One year from date of original retail purchase.
6. Arecont Cameras: One year from date of original retail purchase.
7. FMC series fiber-optic media converters and associated accessories: Lifetime warranty.
8. For PTZ cameras, "Normal Use" excludes prolonged use of lens and pan-and-tilt motors, gear heads, and gears due to continuous use of "autopan" or "tour" modes of operation. Such continuous operation is outside the scope of this warranty.
9. Vicon Security Management Systems (SMS) All Models: All hardware is warranted for two years from date of original retail purchase.
10. Any product sold as "special" or not listed in Vicon's commercial price list: One year from date of original retail purchase.

Date of retail purchase is the date original end-user takes possession of the equipment, or, at the sole discretion of the Company, the date the equipment first becomes operational by the original end-user.

The sole remedy under this Warranty is that defective equipment be repaired or (at the Company's option) replaced, at Company repair centers, provided the equipment has been authorized for return by the Company, and the return shipment is prepaid in accordance with policy.

The Company will not be obligated to repair or replace equipment showing abuse or damage, or to parts which in the judgment of the Company are not defective, or any equipment which may have been tampered with, altered, misused, or been subject to unauthorized repair.

Software supplied either separately or in hardware is furnished on an "As Is" basis. Vicon does not warrant that such software shall be error (bug) free. Software support via telephone, if provided at no cost, may be discontinued at any time without notice at Vicon's sole discretion. Vicon reserves the right to make changes to its software in any of its products at any time and without notice.

This Warranty is in lieu of all other conditions and warranties express or implied as to the Goods, including any warranty of merchantability or fitness and the remedy specified in this Warranty is in lieu of all other remedies available to the Purchaser.

No one is authorized to assume any liability on behalf of the Company, or impose any obligations on it in connection with the sale of any Goods, other than that which is specified above. In no event will the Company be liable for indirect, special, incidental, consequential, or other damages, whether arising from interrupted equipment operation, loss of data, replacement of equipment or software, costs or repairs undertaken by the Purchaser, or other causes.

This warranty applies to all sales made by the Company or its dealers and shall be governed by the laws of New York State without regard to its conflict of laws principles. This Warranty shall be enforceable against the Company only in the courts located in the State of New York.

The form of this Warranty is effective March 1, 2011.

THE TERMS OF THIS WARRANTY APPLY ONLY TO SALES MADE WHILE THIS WARRANTY IS IN EFFECT. THIS WARRANTY SHALL BE OF NO EFFECT IF AT THE TIME OF SALE A DIFFERENT WARRANTY IS POSTED ON THE COMPANY'S WEBSITE, *WWW.VICON-SECURITY.COM*. IN THAT EVENT, THE TERMS OF THE POSTED WARRANTY SHALL APPLY EXCLUSIVELY.

Vicon Part Number: 8006-9010-03-09 Rev 0311

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